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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/882,320		06/15/2001	Andrew Carver	5490-000216	8429	
27572	75	90 04/26/2005		EXAMINER		
	•	ICKEY & PIERCE,	PHILOGENE, PEDRO			
P.O. BOX 828 BLOOMFIELD HILLS, MI 48303				ART UNIT	PAPER NUMBER	
		,		3732		
				DATE MAILED: 04/26/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
Office Action Summan	09/882,320	CARVER ET AL.					
Office Action Summary	Examiner	Art Unit					
	Pedro Philogene	3732					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
·	Responsive to communication(s) filed on <u>17 February 2005</u> .						
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•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
closed in accordance with the practice under	Ex parte Quayle, 1955 C.D. 11, 45	DO O.G. 210.					
Disposition of Claims							
4) Claim(s) 1-14,26-29 and 32-40 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 26-28 and 32-40 is/are allowed. 6) Claim(s) 1-14 and 29 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:						
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Claim Objections

Claim 29 is objected to because of the following informalities: in line 4, before "substantially" insert —a--. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1,12,14,29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Evans et al. (4,516,569) in view of Berman (6,017,366).

With respect to claims 1, 29, Evans et al disclose a device (20) for insertion into a first phalange and a second adjacent phalange, as set forth in column 1, lines 13,14 and column 3, lines 17-19, so as to fuse, as set forth in column 3, lines 7-11, the first phalange to the second phalange, comprising, a monolithic substantially elongated member (21); wherein the member (21) has a first end portion operable to be connected with the first phalange, a middle portion and a second end portion operable to be connected with the second phalange; as best seen in FIG.5, spaced and opposed from the first end portion, wherein the middle portion has a first fixed angle (180 degrees) as best seen in FIGS.1-4, adjustable to a second fixed angle, as best seen in FIG.5 such that a fixed angle, as best seen in FIG.5, is formed between the first end portion and the second portion. Adjustable has been interpreted to mean that the first and second end portions are at an angle as shown in FIG.5 of Evans and FIG.4 of the instant

application. This is consistent with applicant's lack of disclosure of any radius of curvature.

It is noted that Evans did not teach the use of a resorbable material, as claimed by applicant. However, in a similar art, Berman evidences the use of a resorbable material in devices, which are to be inserted into bones so that the implant is conformable due to its inherent compliance and this conformability allows the implant to accommodate to a substantial extent the variable bone shapes. As to the middle portion operable to have a user formable curvature, the resorbable material of Berman would allow a user to fix the angle in the device of Evans et al., as set forth in column 5, lines 20-42, column 7, lines 1-5 and the abstract.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Evans et al to be made of resorbable material as taught by Berman so that the implant is conformable due to its inherent compliance and this conformability allows the implant to accommodate to a substantial extent the variable bone shapes.

The claimed phrase "has a first fixed angle adjustable to a second fixed angle such that a fixed angle is formed.... A fixed curvature such that a fixed angle may be adjustable during the operative procedure" is being treated as a product-by-process limitation, that is that the implant angle is made by the user. As set forth in MPEP 2113, product-by process claims are not limited to the manipulations of the recited steps, only to the structure implied by the steps.

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With respect to claims 12,14, the above combination of references teaches all the limitations; as set forth in the abstract of Berman would allow a user to fix the angle in the device of Evans et al., as set forth in column 5, lines 20-42, column 7, lines 1-5 and the abstract.

Claims 2-11,13, are rejected under 35 U.S.C. 103(a) as being unpatentable over Evans et al. (4,516,569) in view of Berman (6,017,366) in view of Bramlet (5,984,970).

With respect to claims 2-11,13, it is noted that the above combination of references teaches all the limitations, except for a the fist end portion and the second end portion having a surface portion for facilitating retention within the first phalange and the second phalange; as claimed by applicant. However, in a similar art, Bramlet evidences the use of a device having a first end portion and a second end portion having a surface portion for facilitating retention within the first phalange and the second phalange such that a substantive holding force will be developed when the end portion is threadably secured within the bone of the phalange.

Therefore, given the teaching of Bramlet, it would have been obvious to one having ordinary skill in the art at the time the invention was made to replace the fins of the device of Evans/Berman with the threads of the device of Bramlet to be implanted in the phalanges of a finger such that a substantive holding force will be developed when the end portions are threadably secured within the bone of the phalanges.

Response to Amendment

Applicant's arguments filed 2/17/05 have been fully considered but they are not persuasive. The angle as disclose by applicant is first at 180 degrees and than changes to 270 degrees; the angle of Evans is first at 180 degrees (FIGS.1-4) and then modified to an angle similar at the arthrodesed joints as is common practice for fingers, column 3, lines 10-19. Therefore, Evans discloses a fusion pin that has an adjustable angle.

Allowable Subject Matter

Claims 26-28, 32-40, are allowed.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro Philogene whose telephone number is (703) 308-2252. The examiner can normally be reached on Monday to Friday 6:30 AM to 4:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin P Shaver can be reached on (703) 308-2582. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Pedro Philogene April 21, 2005

PEDRO PHILOGENE PRIMARY EXAMINER

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